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<div>Substitute for form 1449A/PTO</div> <div>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</div> <div>(use as many sheets as necessary)</div>				Complete if Known		
				Application Number	10/565,240	
				Filing Date	May 03, 2007	
				First Named Inventor	DEUTSCH Mordechai et al	
				Art Unit	1797	
				Examiner Name	BEISNER William II.	
Sheet	1	of	4	Attorney Docket Number	30008	
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number	Publication Date DD-MMM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code ² (if known)				
	1	2006/0057557	16-Mar-2006	Deutsch et al.		
	2	2006/0154233	13-Jul-2006	Deutsch		
	3	2007/0292837	20-Dec-2007	Deutsch et al.		
	4	6,555,365	29-Apr-2003	Barbera-Guillem et al.		
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Documents	Publication Date DD-MMM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	5	WO 06/003664	12-Jan-2006	Deutsch et al.		
	6	WO 2005/007796	27-Jan-2005	Deutsch et al.		
	7	WO 2005/069001	28-Jul-2005	Muraguchi et al.		
	8	WO 2006/043267	27-Apr-2006	Deutsch		
	9	WO 2006/080000	03-Aug-2006	Deutsch		
	10	WO 96/41153	19-Dec-1996	Zakim		
	11	WO 99/45357	10-Sep-1999	Walt et al.		
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
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	12	Communication Pursuant to Article 94(3) EPC Dated 09 August 2010 From the European Patent Office Re. Application No. 01982673.4.			
	13	Communication Pursuant to Article 94(3) EPC Dated 13 February 2009 From the European Patent Office Re.: Application No. 05763452.9.			
	14	Communication Relating to the Results of the Partial International Search Dated 20 May 2009 From the International Searching Authority Re.: Application No. PCT/IL2008/001678.			
	15	International Preliminary Report on Patentability Dated 27 May 2010 From the International Bureau of WIPO Re.: Application No. PCT/IL2008/001492.			
	16	International Preliminary Report on Patentability Dated 27 May 2010 From the International Preliminary Examining Authority Re.: Application No. PCT/IL2008/001678.			
	17	International Search Report Dated 17 January 2003 From the International Searching Authority Re.: Application No. PCT/IL01/00992..			
	18	Response Dated 25 May 2010 to Official Action of 28 January 2010 From the US Patent and Trademark Office Re.: Application No. 10/492,531.			
	19	Supplementary European Search Report Dated 20 February 2006 From the European Patent Office Re.: Application No 04714873.9.			
	20	Translation of Notice of Reason for Rejection Dated 27 November 2007 From Japanes Patent Office Re.: Application No. 2003-538325.			
	21	Arikawa et al. "Microbial Biosensors Based on Respiratory Inhibition", Methos in Biotechnology, 6(Chap.16): 225-235, 1998.			
	22	Bedner et al. "Enzyme Kinetic Reactions and Fluorochrome Uptake Rates Measured in Individual Cells by Laser Scanning Cytometry", Cytometry, 33(1): 1-9, 1998. Abstract, P.2, Col.1, §4 - Col.2, §1, P.8, Col.2, §2.			
	23	Burlage et al. "Living Biosensors for the Management and Manipulation of Microbial Consortia", Annual Reviews in Microbiology, 48: 291-309, 1994.			
	24	Craighead et al. "Textured Surfaces: Optical Storage and Other Applications", Journal of Vacuum Science and Technology 20 (3): 316, 1982. Abstract.			
	25	Darzynkiewicz et al. "Laser-Scanning Cytometry: A New Instrumentation With Many Applications", Experimental Cell Research, 249(1): 1-12, 1999. Abstract, P.2, Col.2, §4 - P.4, Col.2, §2. P.8, Col.1, §1 - Col.2, §2.			
	26	Dive et al. "Improved Methodology for Intracellular Enzyme Reaction and Inhibition Kinetics by Flow Cytometry", Cytometry Journal of Society for Analytical Cytology, 8(6): 552-561, 1987.			
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	27	Dolbear "Fluorescent Staining of Enzymes for Flow Cytometry", Methods in Cell Biology, 33(Chap.8): 81-88, 1990.			
	28	Ducré "Polymer Prototyping von mikrofluidischen Strukturen. Projekt", Insitut für Mikrosystemtechnik, Albert-Ludwigs-Universität Freiburg i. Br., IMTEK, 4 P., 2004. Retrieved From the Internet: http://images.google.com/imgres?imgurl=http://www.imtek.de/anwendungen/content/upload/vorlesung/133/133-03-14_prototyping_hydrophobic.jpg&imgrefurl=http://www.imtek.de/content/projekte.php%3FIs%3D3%26nr%3D133&h=299&w=429&			
	29	Hansen et al. "Quantification of Bioavailable Chlorotetracycline in Pig Feces Using A Bacterial Whole-Cell Biosensor", Veterinary Microbiology, 87: 51-57, 2002.			
	30	Kiguchi et al. "Induction of Urokinase-Type Plasminogen Activator by the Anthracycline Antibiotic in Human RC-K8 Lymphoma and H69 Lung-Carcinoma Cells", International Journal of Cancer, 93: 792-797, 2001.			
	31	Klingel et al. "Flow Cytometric Determination of Serine Proteinase Activities in Living Cells With Rhodamine 110 Substrates", Methods in Cell Biology, 41(Chap.29): 449-460, 1994.			
	32	Mrksich et al. "Using Self-Assembled Monolayers to Understand the Interactions of Man-Made Surfaces With Proteins and Cells", Annual Reviews in Biophysics and Biomolecular Structure, 25: 55-78, 1996.			
	33	Nooter et al. "On-Line Flow Cytometry. A Versatile Method for Kinetic Measurement", Methods in Cell Biology, 41(Chap.32): 509-526, 1994.			
	34	Riedel et al. "Arxula Adenivorans Based Sensor for the Estimation of Bod", Analytical Letters, 31(1): 1-12, 1998.			
	35	Schroeder et al. "Coordination of Cell Growth in Cocultures by A Genetic Proliferation Control System", Biotechnology and Bioengineering, 78(3): 346-352, 2002.			
	36	Simonian et al. "Microbial Biosensors Based on Potentiometric Detection", Methods in Biotechnology, 6(Chap.17): 237-248, 1998.			
	37	Singhvi et al. "Engineering Cell Shape and Function", Science, 264: 696-698, 1994.			
	38	Sunray et al. "The Trace and Subgrouping of Lymphocyte Activation by Dynamic Fluorescence Intensity and Polarization Measurements", Biochemical and Biophysical Research Communications, 261(3): 712-719, 1999. Abstract, P.713, Col.1, §5, Col.2, §7 - P.714, Col.2, §1.			
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39

Tixier et al. "Catching and Attaching Cells Using An Array of Microholes", Abstract of the 2nd Conference of the Society for Chemistry and Micro Systems, P.60, 2000.

40

Turek et al. "Leucine Aminopeptidase Activity by Flow Cytometry", *Methods in Cell Biology*, 41(Chap.30): 461-468, 1994.

41

Watson et al. "Enzyme Kinetics", *Methods in Cell Biology*, 41: 469-508, 1994.

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/William Beisner/

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12/05/2010

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